CLAIMS

1. A method of performing path maximum transmission unit (PMTU) discovery when two proxies are modifying a connection between a client and a server comprising the steps of:

receiving one or more packets from a client by a first proxy;

estimating a new PMTU, larger than the current PMTU;

repacketizing said client packets into at least one new packet according to the new PMTU;

transmitting said at least one new packet;

receiving said at least one new packet by a second proxy;

detecting fragmentation or non-fragmentation of said at least one new packet;

generating notification of the results of said fragmentation detecting step; and

transmitted said notification to said first proxy.